

Fig. 1

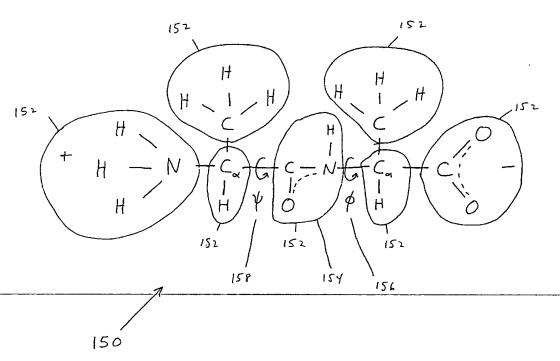


Fig. 8

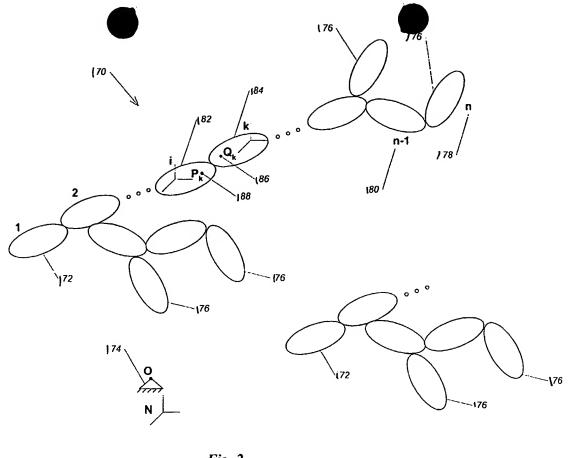


Fig. 2

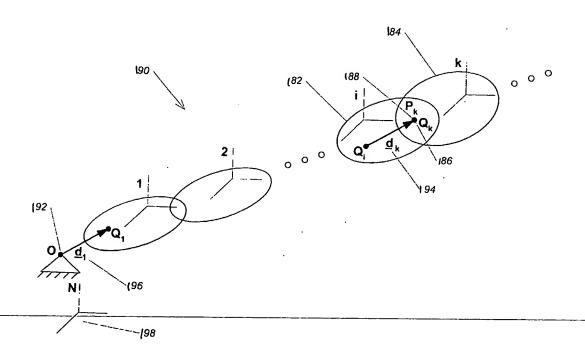
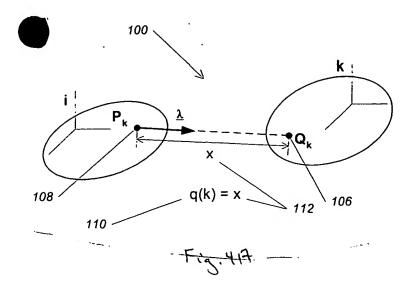
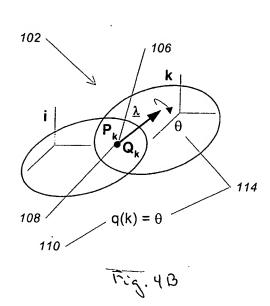


Fig. 3





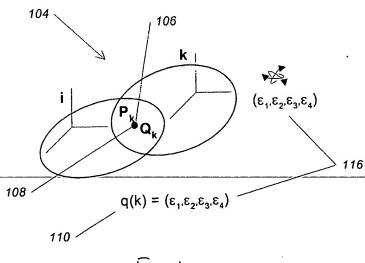


Fig. 4C

 $\frac{I m plicit Ealer}{R(\mathbf{z}) = \frac{1}{1-7}}$

A-Stable

Fig. 5 A

lim R(2) = 0

L-Stable

Implicit Midpoint $R(3) = \frac{1+\frac{2}{2}}{1-\frac{2}{2}}$

 \mathcal{C}

1m R(2) \$ 0

NoT L-Stable

⊃ (-

A-Stable

Fig. 5B

Radau 5

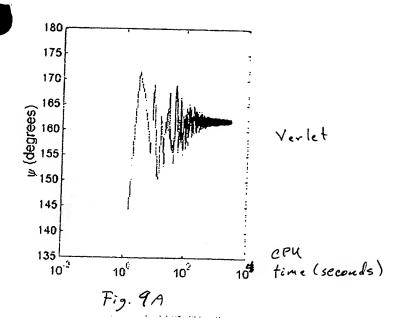
 $R(\pm) = \frac{1 + 2 \cdot \frac{7}{5} + \frac{2^{2}}{1 - 3^{2}} = \frac{1 + 2 \cdot \frac{7}{5} + \frac{2^{2}}{1 - \frac{7}{5}}}{1 - \frac{7}{5} = \frac{7}{5}$

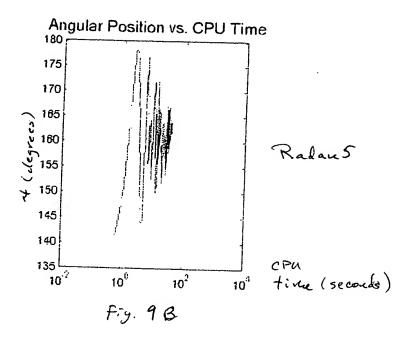
lim R(2) = 0 まつか

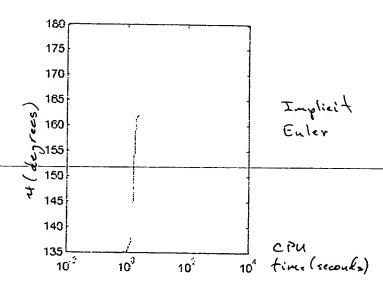
L-Stuble

Fig. &C

Fia. 7









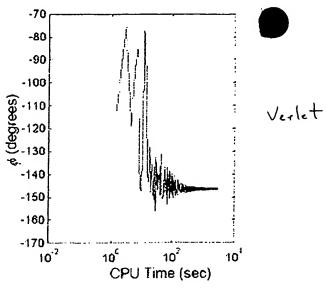


Fig. 90

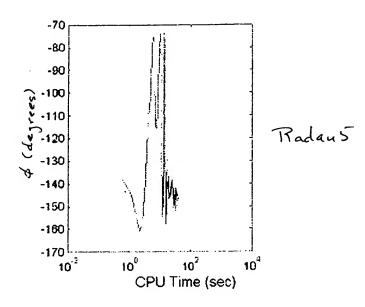


Fig. 9E -70 -80 -90 -100 -110 Implicit Euler 120 120 130 140 -140 -150

10² 10² CPU Time (sec)

10⁴

-160

-170 l . 10 -

